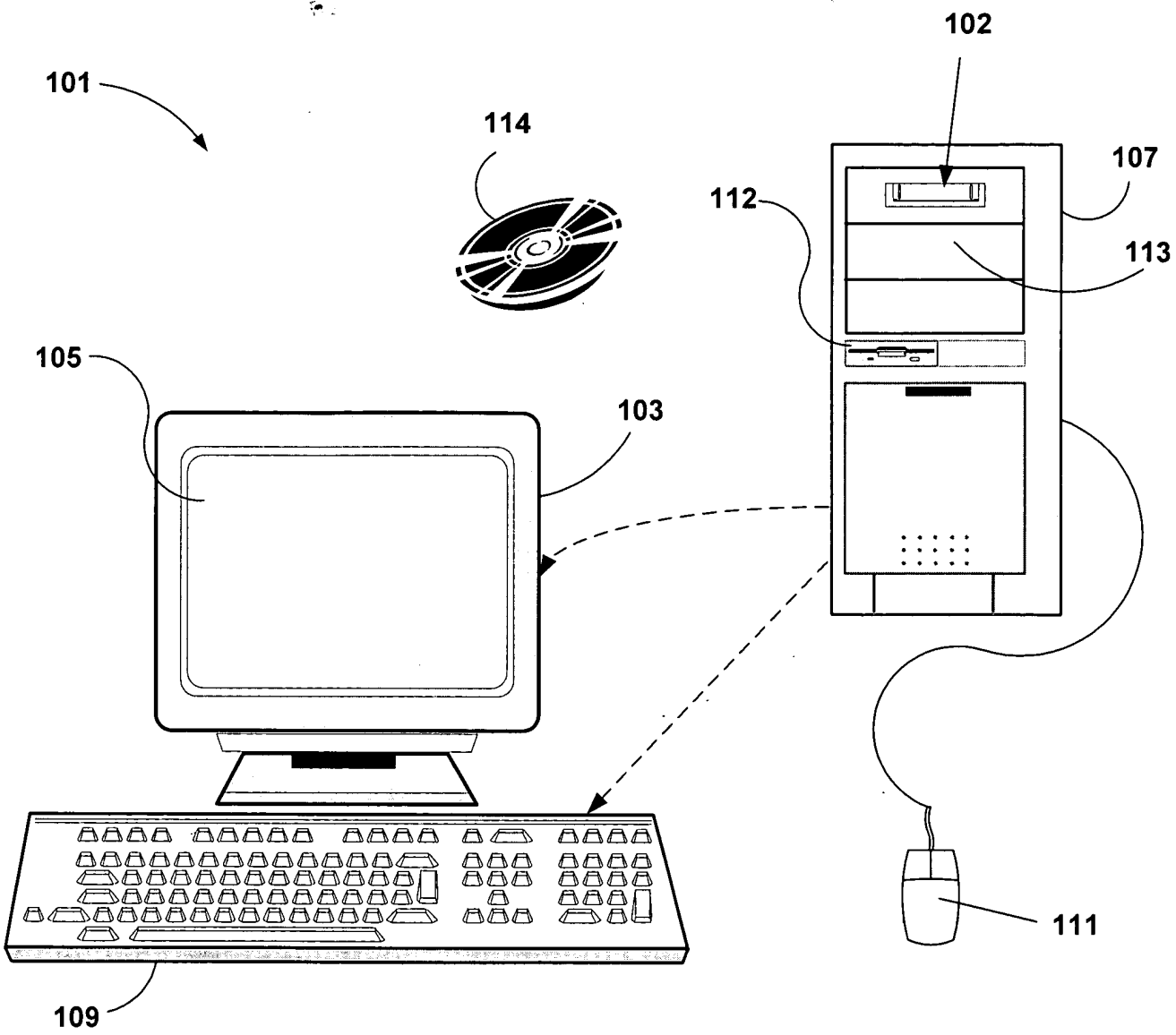

Figure 1

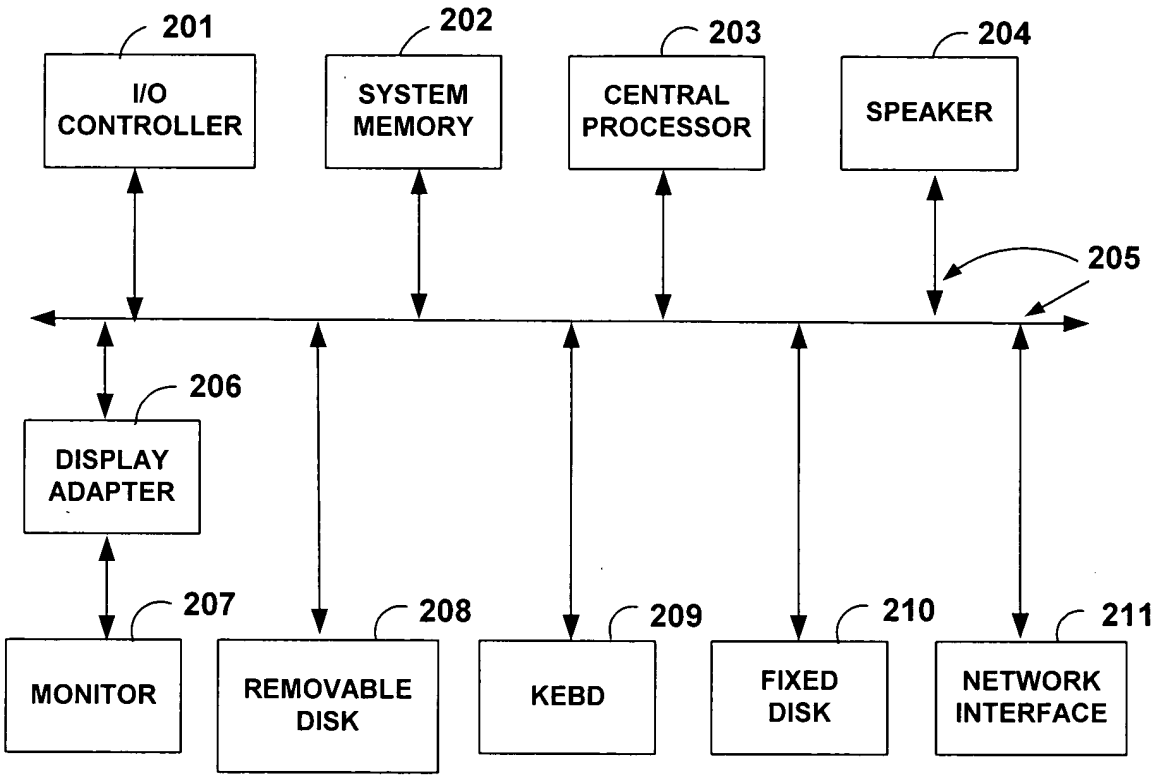
201
I/O CONTROLLER
202
SYSTEM MEMORY
203
CENTRAL PROCESSOR
204
SPEAKER
205
206
DISPLAY ADAPTER
207
MONITOR
208
REMOVABLE DISK
209
KEBD
210
FIXED DISK
211
NETWORK INTERFACE

Figure 2

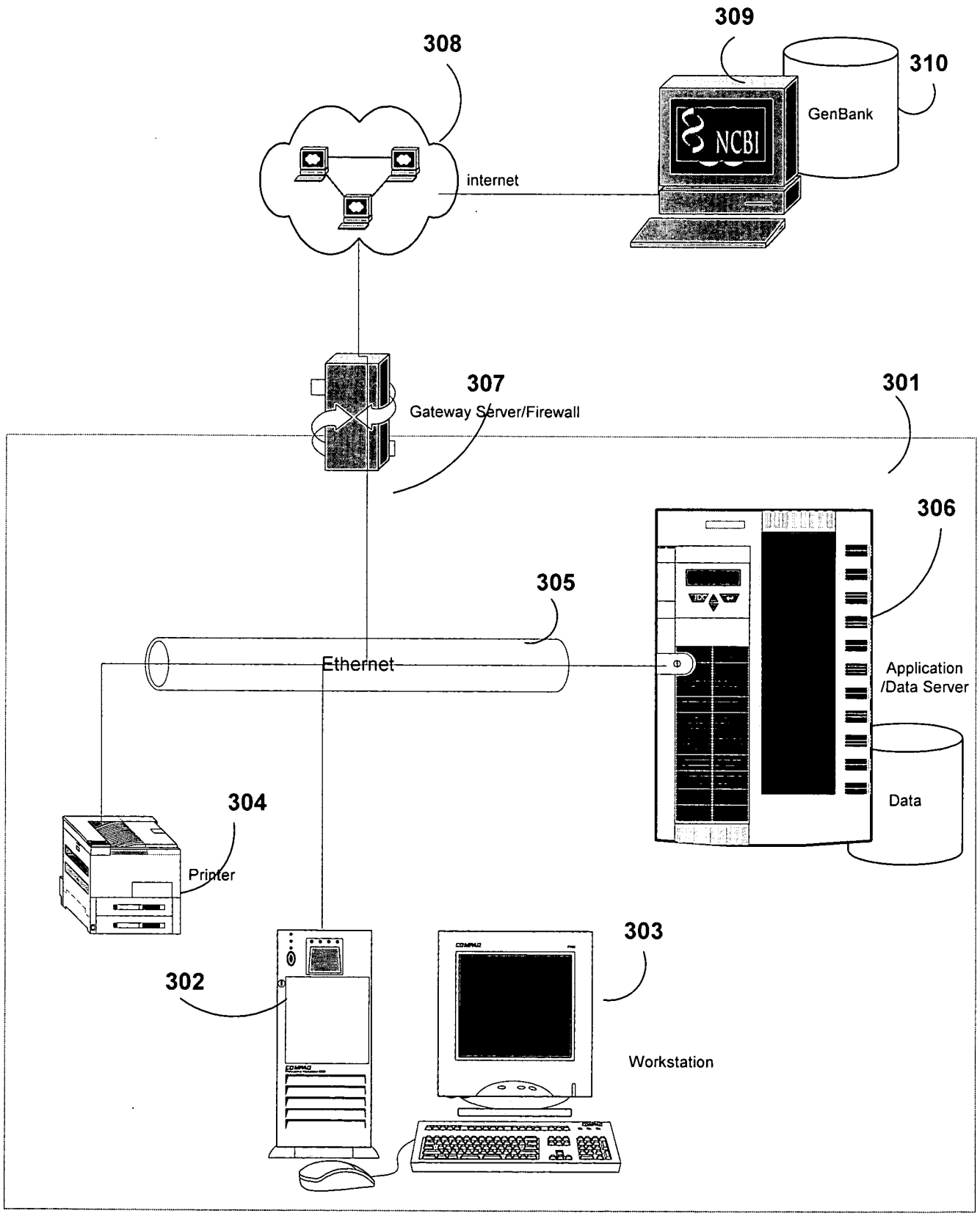
309
308
310
GenBank
NCBI
internet
307
Gateway Server/Firewall
301
306
305
Ethernet
Application
/Data Server
Data
304
Printer
303
302
Workstation

FIGURE 3

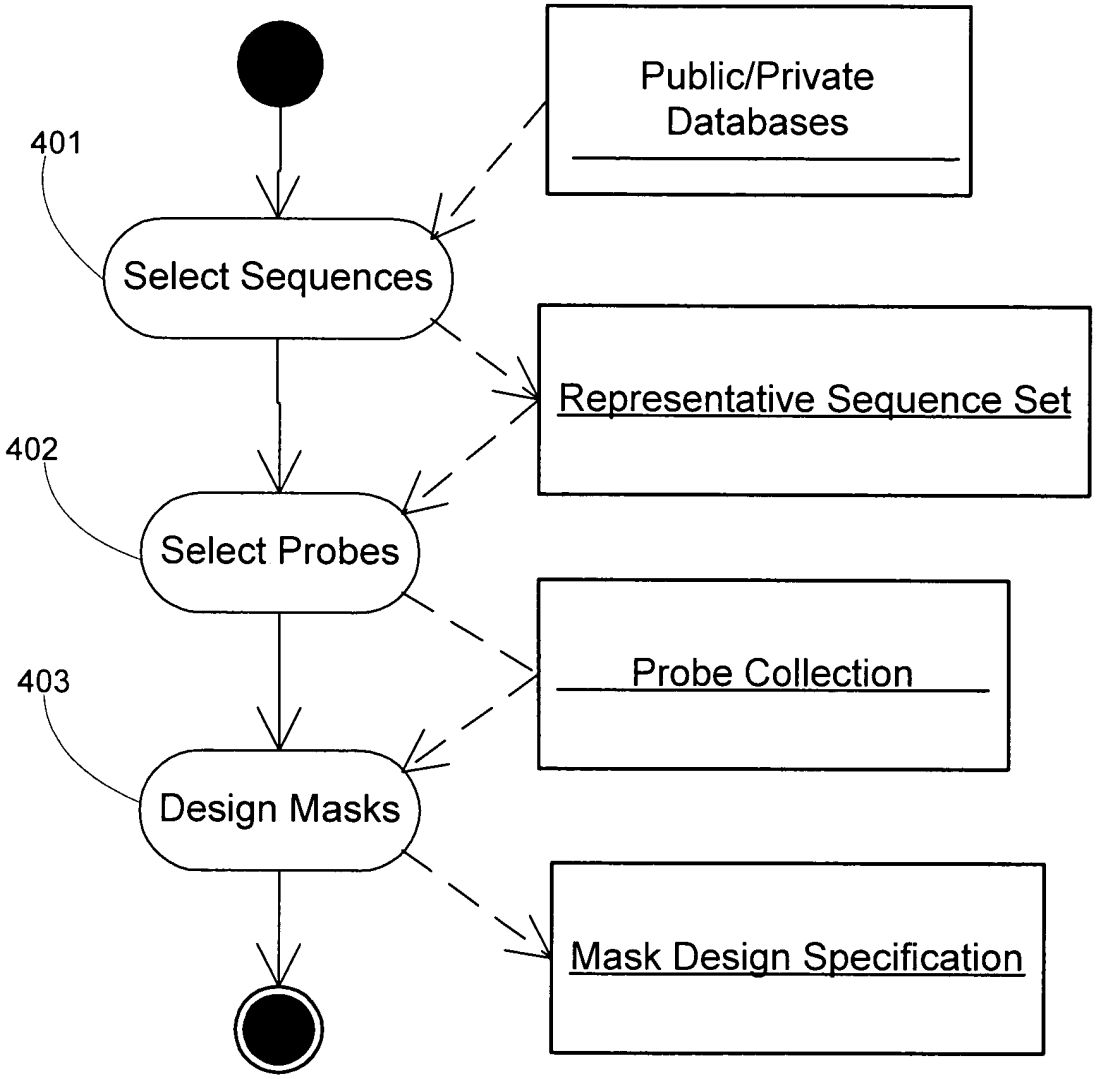
Public/Private Databases
401
Select Sequences
Representative Sequence Set
402
Select Probes
Probe Collection
403
Design Masks
Mask Design Specification

FIGURE 4

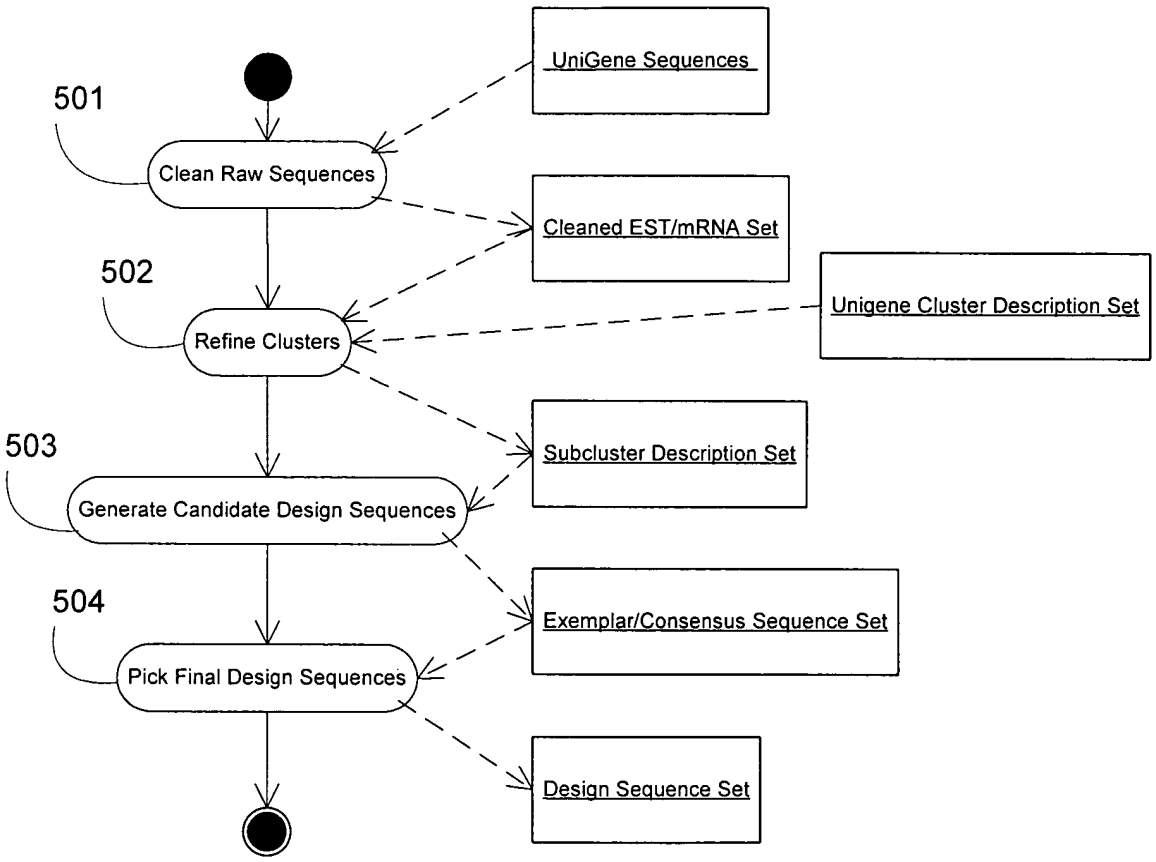
501
Clean Raw Sequences
502
Refine Clusters
503
Generate Candidate Design Sequences
504
Pick Final Design Sequences
UniGene Sequences
Cleaned EST/mRNA Set
Unigene Cluster Description Set
Subcluster Description Set
Exemplar/Consensus Sequence Set
Design Sequence Set

FIGURE 5

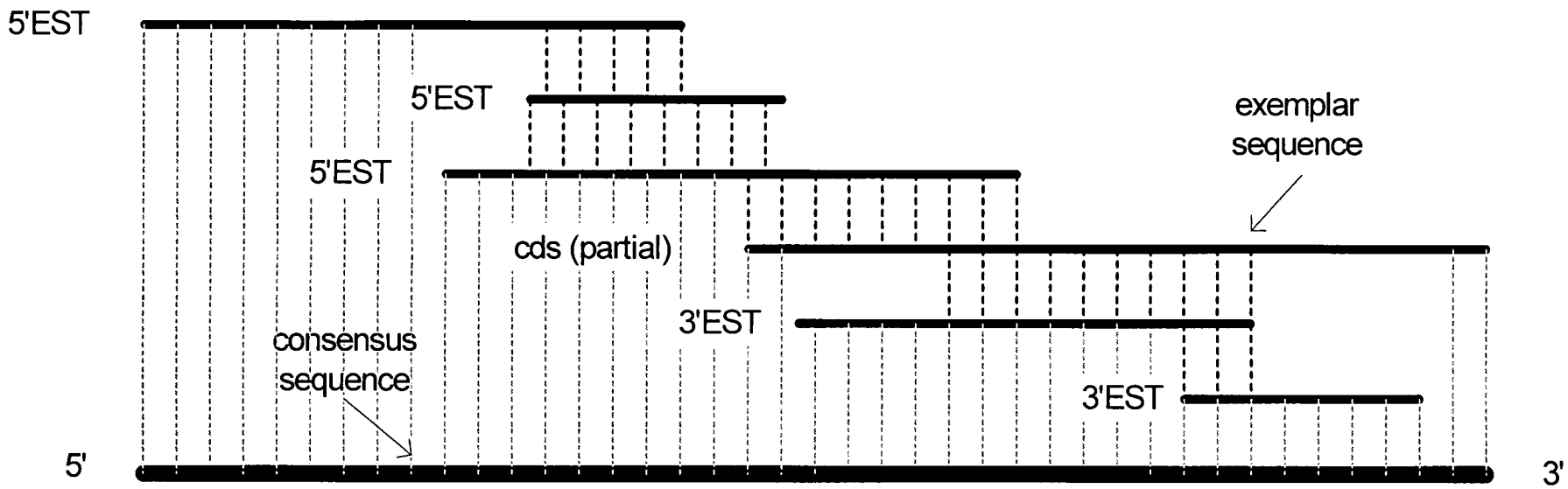
5'EST
5'EST
5'EST
exemplar
sequence
cds (partial)
3'EST
consensus
sequence
3'EST
5'
3'

FIGURE 6

EDGE-ID: #ES2379260

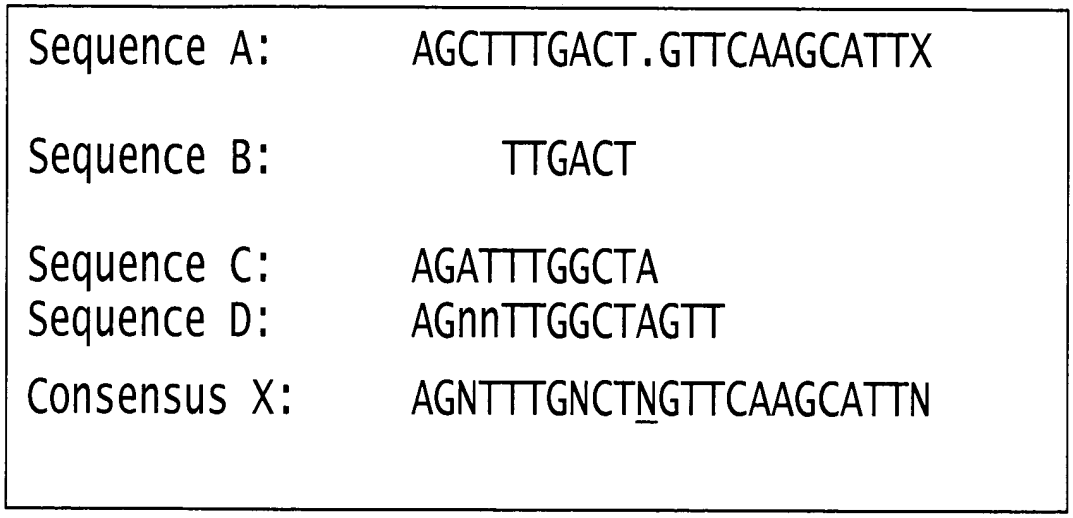

FIGURE 7

T09TTD"h2Eh9260

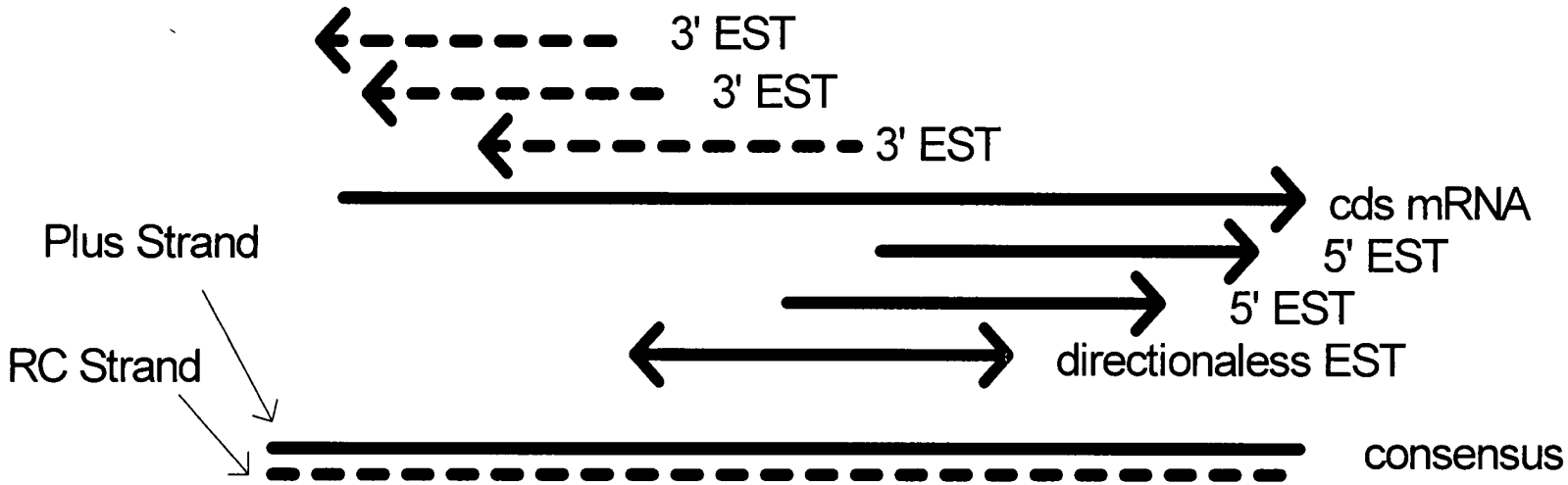

FIGURE 8

T09TT0"h2Eh9Z60

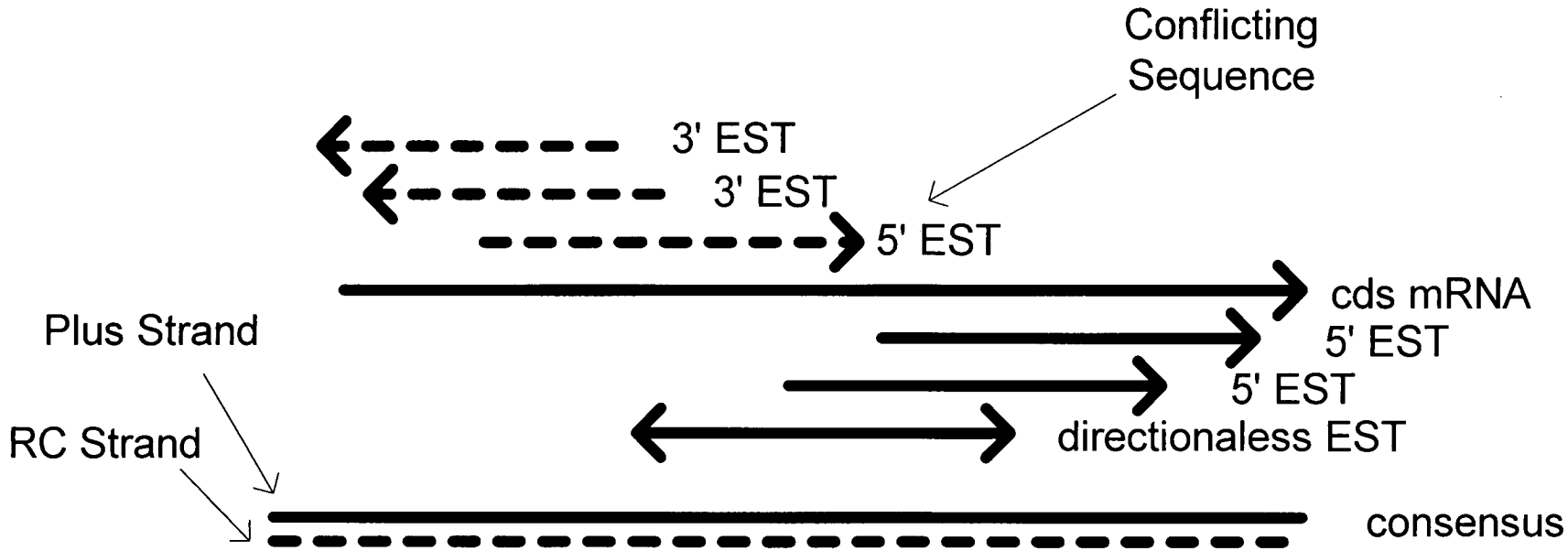

FIGURE 9

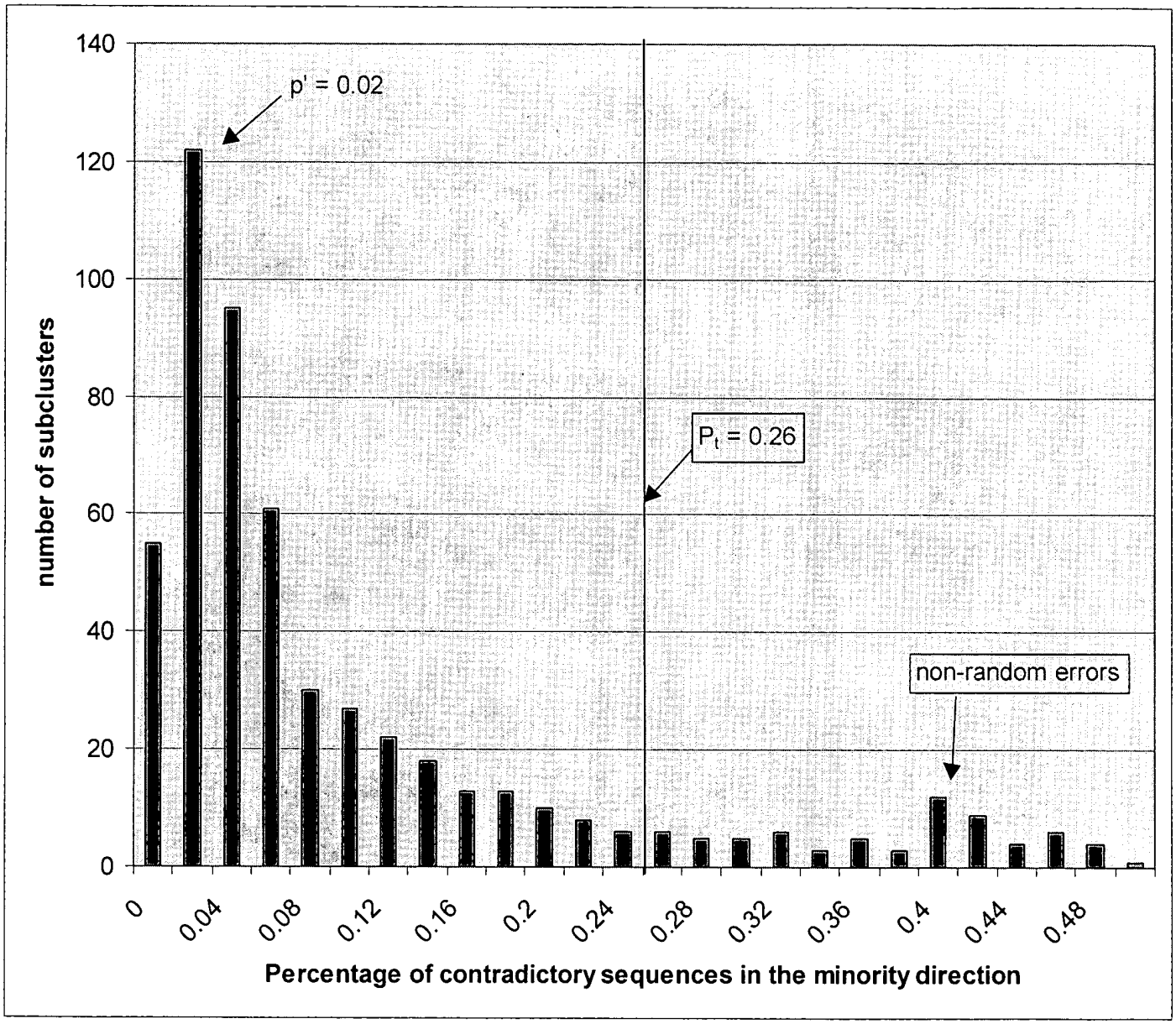
140
120
100
80
60
40
20
0
number of subclusters
p' = 0.02
P_t = 0.26
non-random errors
0
0.04
0.08
0.12
0.16
0.2
0.24
0.28
0.32
0.36
0.4
0.44
0.48
Percentage of contradictory sequences in the minority direction

FIGURE 10